Exhibit A

UNITED STATES DISTRICT COURT NORTHERN DISTRICT OF ILLINOIS, EASTERN DIVISION

Hangzhou Chic Intelligent Technology Co. and Unicorn Global Inc., Plaintiffs

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THE PARTNERSHIPS AND UNINCORPORATED ASSOCIATIONS IDENTIFIED ON SCHEDULE A, Defendants.

Case No. :20-cv-04806
Judge Thomas M. Durkin
Magistrate Judge Jeffery Cole

EXPERT REPORT OF PAUL HATCH REGARDING INFRINGEMENT OF U.S. PATENTS D737,723, D738,256, D784,195, and D785,112

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I. INTRODUCTION

I have been retained by counsel as an independent expert witness to provide my opinion regarding the above litigation matter, and matters related to the U.S. Patents D737,723, D738,256, D784,195, and D785,112 ("the Patents-In-Suit"). (Dkt. 37-11). This report is in support of Plaintiffs Hangzhou Chic Intelligent Technology Co. and Unicorn Global Inc.'s (collectively "Hangzhou") claims of patent infringement against defendant. Hangzhou requested that I opine on the similarities between the design claimed in each of the Patents-In-Suit and Defendant Gyroor-US's accused hoverboard products (collectively, the "Accused Products").

I previously provided declarations in this matter, including: (1) an August 24, 2021 Declaration Regarding Infringement; (2) a September 24, 2021 Rebuttal to the Declaration of Lance Rake; and (3) a September 24, 2021 Rebuttal to the Declaration of Jim Gandy.

I understand my task, as it was in connection with the prior Declarations, is to review materials and offer my opinion, perspective and insights regarding this subject. I hold the opinions expressed in this Report, but as my study of the case continues, I may acquire additional information that leads to new insights relevant to these opinions. With that in mind, I reserve the right to supplement this Report if and when such additional information becomes known to me. I may also provide supplemental and rebuttal reports in response to arguments which may be proposed by the Defendant.

A. Summary

I have considered the appearance of the Claimed Designs and the Accused Products from the viewpoint of the ordinary observer who is familiar with the relevant prior art.

Having performed this analysis and evaluation, it is my opinion that the overall appearance of each of the Accused Products is not "plainly dissimilar" to one or more of the Claimed Designs of the Patents-In-Issue, as I understand that term to be understood in Patent Law.

I also conclude that an ordinary observer familiar with the prior art, giving such attention as a purchaser usually gives, would find the overall appearance of each Accused Product to be substantially the same as the overall appearance of one or more of the Claimed Designs in light of the prior art, inducing him or her to purchase each Accused Product supposing it to be the Claimed Design.

B. Background and Qualifications

I am the recently retired CEO of TEAMS Design USA, a global product design consultancy. I have over 25 years of product design and industrial design experience and have designed many mass-produced products, including consumer electronics, personal mobility equipment such as Segways, and electric bicycles. In my company, I was actively involved in all phases of the

development process, including the user research, idea conceptualization, styling, visual brand language, development, engineering and overseeing the final production stages.

I reside at 718 S. Oakley Blvd, Chicago, Illinois. I hold a Bachelor of Arts degree with honors (BA (Hons)) in Design for Industry (Industrial Design) from the University of Northumbria at Newcastle, United Kingdom. While studying to obtain my honors degree in Industrial Design, I took courses covering subjects including technical drawing, computer aided drawing, product styling and brand language, ergonomics, product evaluation, usability testing, production techniques, prototyping, mechanical engineering, and production techniques.

In the course of my work as a designer and managing teams of designers, I have gained an understanding of the training, knowledge, skills, and abilities of a person skilled in the art of product design and industrial design. Through this work, I have also gained an understanding of how a person who purchases a particular product perceives and appreciates the visual appearance and or functional merits of a product's design, and I use this understanding to opine on how the particular purchaser or ordinary observer would answer questions raised in the examination of design patents, utility patents, trademarks, and trade dress claims. I am the named inventor in over 45 design and utility patents. I have written papers and spoken at many universities across the U.S. on the subject of visual perception, where I share information from psychological and neurological studies into how humans perceive things such as physical products, what physical attributes we notice (if any), and how meaning is attached to what we see.

I was recently nominated into the prestigious IDSA Academy of Fellows. I have also been awarded many design awards, including the "Design of the Decade Award" from Business Week. In 2016 I was elected onto the board of IDSA as Director-at-Large. Further information on my professional experience is detailed in my curriculum vitae, which is set forth in *Appendix A*. I have previously provided expert testimony in many other patent-related matters, a detailed list of cases for which I have provided expert testimony is attached as *Appendix B*.

C. Compensation and Prior Testimony

I am being compensated at a rate of \$450 per hour to provide analysis and testimony in this proceeding. My compensation is not contingent on the outcome of any matter or the specifics of my testimony. I have no financial interest in the outcome of this matter.

D. Materials and Information Considered

In forming my opinions, I have reviewed the claimed design of the Patents-In-Suit; their file history; the prior art cited on the face of the patent; and the Accused Products. The list of materials I reviewed in my analysis is included in *Appendix C*.

E. Methodology Used in Preparing this Report

I examined the above-mentioned products, patents and supporting documents. I also examined samples of the Commercial Embodiments. I applied my extensive research and expertise in industrial design and visual perception in preparing this Report.

My methodology used to prepare this Report is presented as follows:

- a. I will introduce the Patents-In-Suit, identify the scope of the Patents-In-Suit, and identify distinct ornamental features regarding the same.
- b. I will introduce the prior art cited on the face of the Patents-In-Suit.
- c. I will introduce the Accused Products.
- d. I will compare the similarities and differences between each of the claimed designs of the Patents-In-Suit and the Accused Products, and explain how an ordinary observer would perceive the Claimed Designs and Accused Products in light of the prior art.

II. LEGAL STANDARDS

I am not a lawyer. Rather, I am an industrial designer and base my analysis on the legal guidelines provided to me as outlined below.

A. The Limiting Purpose of a Design Patent

I understand that a U.S. patent does not grant the owner the right to use the invention, rather, the owner is granted the right, for a limited period of time, to prevent others from making, using, offering for sale, or selling the patented invention in the United States or importing the patented invention into the United States. In other words, the government grants the patent owner **the right to limit other people's use** of the invention. To construe the scope of a design patent, I understand that one must also consider the prosecution history of the patent application. *See Goodyear Tire*, 162 F.3d at 1116 and Hatch §§ II.B.

B. Legal Principles in Analysis of Design Patent Infringement

It is my understanding that "[w]hether a design patent is infringed is determined by first construing the claim to the design, when appropriate, and then comparing it to the design of the accused device." *OddzOn Prods., Inc. v. Just Toys, Inc.*, 122 F.3d 1396, 1404 (Fed. Cir. 1997) (citing *Elmer v. ICC Fabricating, Inc.*, 67 F.3d 1571, 1577 (Fed. Cir. 1995)).

I understand that, under precedent from the U.S. Court of Appeals for the Federal Circuit ("the Federal Circuit"), "trial courts have a duty to conduct claim construction in design patent cases, as in utility patent cases[.]" *Egyptian Goddess*, 543 F.3d at 679. "[T]he court has recognized that design patents 'typically are claimed as shown in drawings,' and that claim construction 'is adapted accordingly.'" *Id.* (quoting *Arminak & Assocs., Inc. v. Saint-Gobain Calmar, Inc.*, 501 F.3d 1314, 1319 (Fed. Cir. 2007)). Given the "difficulties entailed in trying to describe a design in words, the preferable course . . . [is] not to attempt to 'construe' a design patent claim by

providing a detailed verbal description of the claimed design." *Egyptian Goddess*, 543 F.3d at 679.

As I understand, after a design patent's claim is construed, the claim "must be compared to the accused design to determine whether there has been infringement." *Elmer*, 67 F.3d at 1577. I understand that infringement occurs when an ordinary observer "giving such attention as a purchaser usually gives, [deems] two designs are substantially the same" meaning "the resemblance is such as to deceive such an observer, inducing him to purchase one supposing it to be the other.[]" *Egyptian Goddess*, 543 F.3d at 670 (quoting *Gorham Co. v. White*, 81 U.S. 511, 528 (1872)).

I am also aware that infringement is determined "in light of the prior art" by "applying the ordinary observer test through the eyes of an observer familiar with the prior art." *Egyptian Goddess*, 543 F.3d at 677. Thus, the hypothetical ordinary observer is presumed to have a complete knowledge of all relevant prior art.

I understand that a design patent infringement analysis is a two-step process. The first step is to consider whether the Claimed Design and Accused Products are "sufficiently distinct" also known as "plainly dissimilar." *Ethicon*, 796 F.3d at 1335 (citing *Egyptian Goddess*, 543 F. 3d at 678). If the Claimed Design and the Accused Products are found to be plainly dissimilar, there is no patent infringement. *Id*.

But, "if the claimed and accused designs are not plainly dissimilar," I understand that the second step in an infringement analysis involves a three-way comparison to compare "the patented and accused designs in the context of similar designs found in the prior art." *Egyptian Goddess*, 543 F.3d at 674. "[I]f the accused design has copied a particular feature of the claimed design that departs conspicuously from the prior art, the accused design is naturally more likely to be regarded as deceptively similar to the claimed design, and thus infringing." *Id.* at 677.

As I understand, these "[d]ifferences, however, must be evaluated in the context of the Claimed Design as a whole, and not in the context of separate elements in isolation. Where, as here, the Claimed Design includes several elements, the fact finder must apply the ordinary observer test by comparing similarities in overall designs, not similarities of ornamental features in isolation." *Ethicon*, 796 F.3d at 1335 (citing *Richardson v. Stanley Works, Inc.*, 597 F.3d 1288, 1295 (Fed. Cir. 2010). *See also Crocs, Inc. v. Int'l Trade Comm'n*, 598 F.3d 1294, 1303-1304 (Fed. Cir. 2010). "[T]he mandated overall comparison is a comparison taking into account significant differences between the two designs, not minor or trivial differences that necessarily exist between any two designs that are not exact copies of one another." *Int'l Seaway Trading Co. v. Walgreens Corp.*, 589 F.3d 1233, 1243 (Fed. Cir. 2009).

C. Claim Construction in Design Patents

As I understand, courts construe claims for a design patent just as for a utility patent. *Goodyear Tire & Rubber Co. v. Hercules Tire & Rubber Co., Inc.*, 162 F.3d 1113, 1116 (Fed. Cir. 1998). That said, I understand that the Federal Circuit has cautioned against a detailed, verbal construction

of the features in the patent drawings. *Egyptian Goddess, Inc. v. Swisa, Inc.*, 543 F.3d 665, 679 (Fed. Cir. 2008) (en banc). This is because a written claim construction focused on individual features may lead the factfinder away from "consideration of the design as a whole." *Crocs*, 598 F.3d at 1303. However, while the claimed design of a design patent is better represented by an illustration, it is helpful to the finder of fact to be provided with guidance on the overall impression of the claimed design on the ordinary observer. *Contessa Food Prods., Inc. v. Conagra, Inc.*, 282 F.3d 1370, 1376 (Fed. Cir. 2002).

To construe the scope of a design patent, I understand that one must consider (1) the language of the specification to determine whether the written description disclaims, characterizes, or limits any features; (2) whether the figures identify unclaimed subject matter (e.g., features depicted in broken lines); and (3) whether the prosecution history of the application shows if the applicant disclaimed subject matter or distinguished the Claimed Design from the prior art based on certain features present or absent in the graphics. *See Goodyear Tire*, 162 F.3d at 1116.

I am also informed that the Manual of Patent Examining Procedure ("MPEP") provides guidance on how broken lines are to be used in design patent drawings. U.S. Pat. & Trademark Office, Manual of Patent Examining Procedure § 1503.02 (9th ed. 2018). Section 1503.02.III notes that broken lines include "[s]tructure that is not part of the claimed design, but is considered necessary to show the environment in which the design is associated" and that structure "may be represented in the drawing by broken lines." *Id.* Such "[u]nclaimed subject matter must be described as forming no part of the claimed design or of a specified embodiment thereof."

I am also informed that "in analyzing infringement, the fact finder must compare the **claimed portion** of the design—i.e., whatever is shown in solid lines in the patent drawings—to the corresponding portion of the accused design." (emphasis added) Burstein, The "Article of Manufacture" in 1887, supra note 12, at 11 (first citing *Hutzler Mfg. Co. v. Bradshaw Int'l, Inc.*, No. 1:11-cv-07211, 2012 WL 3031150, at *9–10 (S.D.N.Y. July 24, 2012); and then citing *Egyptian Goddess*, 543 F.3d at 672).

D. The Significance of Prior Art

As I understand, the role of prior art is to help the finder of fact consider seemingly small or minor details that differentiate the patented design from the prior art. "Where there are many examples of similar prior art designs . . ., differences between the claimed and accused designs that might not be noticeable in the abstract can become significant to the hypothetical ordinary observer who is conversant with the prior art." *Egyptian Goddess*, 543 F.3d at 678.

For the purposes of my opinion, I considered prior art to define the scope of the hoverboard market at the time the Claimed Designs were filed. In so doing, I was able to better discern the similarities and differences (or lack thereof) between the Claimed Designs and the Accused Products in the eyes of the ordinary observer.

E. Definition of the Ordinary Observer

I understand that the hypothetical ordinary observer must be identified before applying the ordinary observer test by focusing on the actual product that is presented for purchase, and the ordinary purchaser of that product. The hypothetical ordinary observer is different for each case, based on the type of product at issue. As explained above, the determination of the substantial similarity is based on the viewpoint of the ordinary observer who is "not an expert in the claimed designs" but rather one of *ordinary* acuteness who is a principal purchaser of the product. The hypothetical ordinary observer is also one who is aware of the number of closely similar prior art designs and conversant with the prior art.

I also understand, "[t]he measure of infringement of a design patent is deception of the ordinary observer, when such person gives the design the attention usually given by a purchaser of the item bearing the design[.]" *Goodyear Tire*, 162 F.3d at 1117. Further, I understand that some courts have held that the ordinary observer is one who is "not an expert in the claimed designs", but rather "one of ordinary acuteness who is a principal purchaser[]" of the product. *Ethicon*, 796 F.3d at 1337 (internal quotations and citation omitted). That said, the ordinary observer is one who is "aware of the great number of closely similar prior art designs" and "conversant with the prior art". *Egyptian Goddess*, 543 F.3d at 676, 678. Under *Gorham*, the ordinary observer is through the "eyes of men generally" and not individuals "versed in designs in the particular trade in question" or "engaged in the manufacture or sale of articles containing such designs". *Gorham Co. v. White*, 81 U.S. 511, 527-528 (1871).

Based on my experience as an Industrial Designer of commercial products, including electronic mobility products and consumer electronics, it is my opinion that an ordinary observer in this case is the typical purchaser of hoverboards, i.e., a consumer user or the parent of a user, each having little or no experience purchasing hoverboards. The ordinary observer encounters products like the Claimed Designs via online stores, television and entertainment media, and social media, and purchases them using online stores or from 'brick and mortar' stores like Best Buy or Walmart.

III. ANALYSIS OF THE PATENTS-IN-SUIT AND THE PRIOR ART

A. The Patents-In-Suit

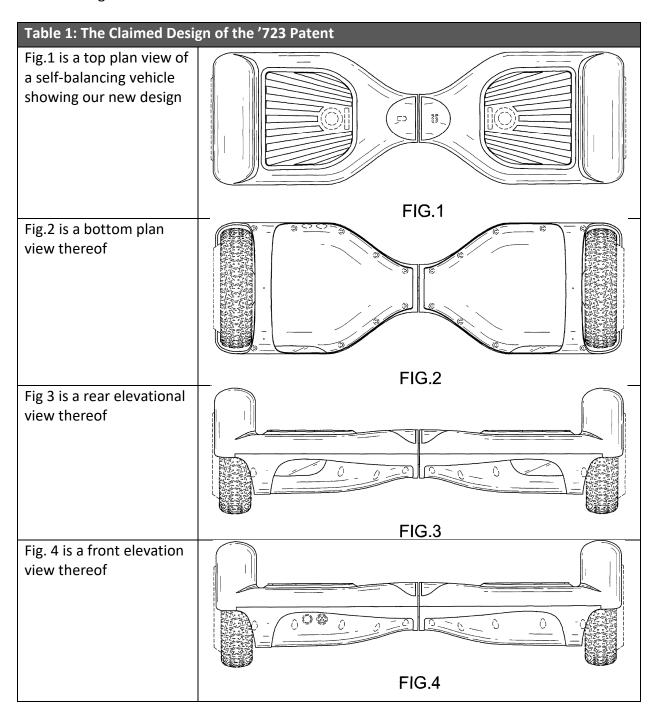
The four Patents-In-Suit are the U.S. Patents D737,723 ("the '723 Patent"), D738,256 ("the '256 Patent"), D784,195 ("the '195 Patent"), and D785,112 ("the '112 Patent") for Self-Balancing Vehicles, and Human-Machine Interaction Vehicles. Such self-balancing vehicles are commonly referred to as "hoverboards".

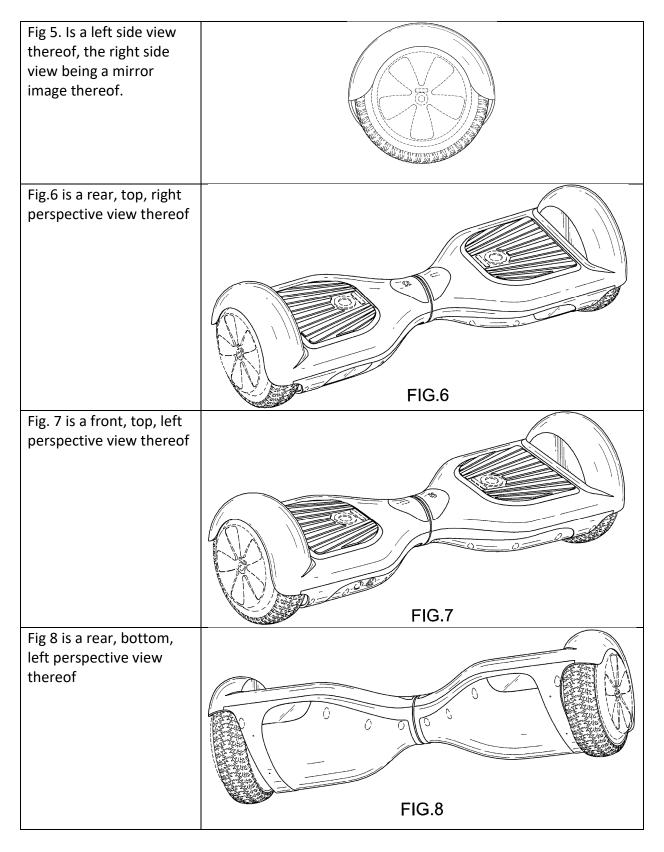
As mentioned above, the scope of the claim of a patented design encompasses its visual appearance as a whole, and in particular the visual impression it creates to the ordinary observer.

B. Examination of the '723 Patent

The '723 Patent is titled "Self-Balancing Vehicle" and has a filing date of Dec 15, 2014. It claims priority to a foreign application CN 201430180556.4 dated 6/13/2014.

The patent has 8 figures, and states "the broken line showing is for the purpose of illustrating portions of the self-balancing vehicle and environment structure which form no part of the claimed design".





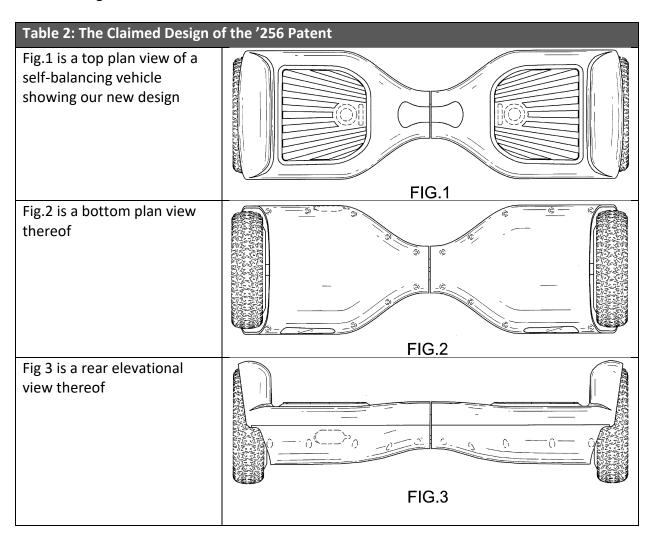
What is claimed is the overall ornamental design of a Self-Balancing Vehicle as described in the patent and shown in the figures. The claimed design does not include the areas shown in

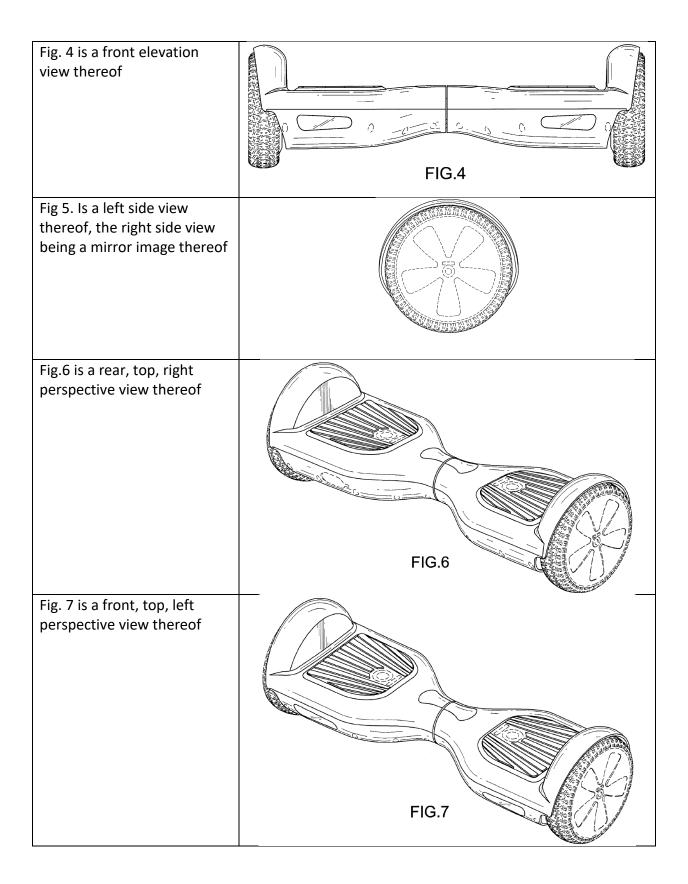
broken lines, such as the wheels, holes on the underside, the "O I" pattern, and the on/off graphics.

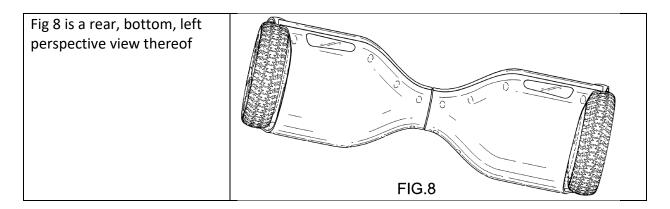
I have reviewed the prosecution history of the '723 Patent, and it consistent with my opinion of the claim scope. The claimed design was allowed over all the prior art that was cited in the file history.

C. Examination of the '256 Patent

The '256 Patent is also titled "Self Balancing Vehicle" and has a filing date of Dec 15, 2014. The patent has 8 figures, and states "the broken line showing is for the purpose of illustrating portions of the self-balancing vehicle and environment structure which form no part of the claimed design".







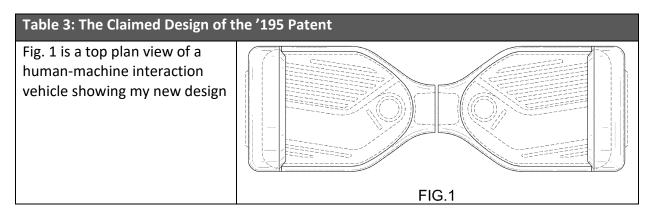
What is claimed is the overall ornamental design of a Self-Balancing Vehicle as described in the patent and shown in the figures. The claimed design does not include the areas shown in broken lines, such as the wheels, holes on the underside, and the "O I" pattern.

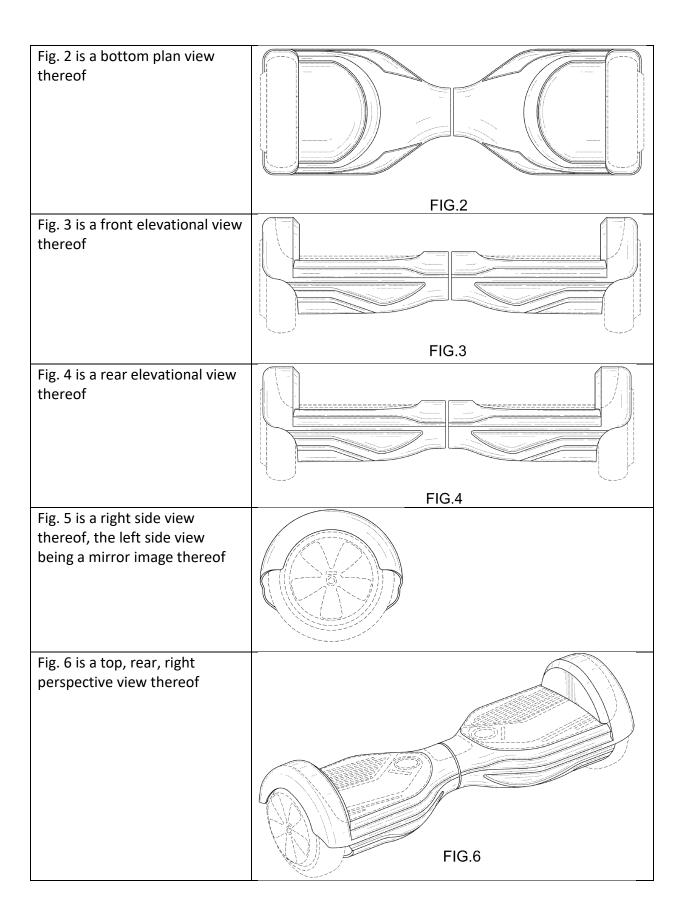
I have reviewed the prosecution history of the '256 Patent, and it consistent with my opinion of the claim scope. The claimed design was allowed over all the prior art that was cited in the file history.

D. Examination of the '195 Patent

The '195 Patent is titled "Human-Machine Interaction Vehicle" and has a filing date of Feb 29, 2016. It claims priority to a foreign application 201530389352.6 dated 10/9/2015

The patent has 6 figures, and states "the broken lines are for the purpose of illustrating portions of the human-machine interaction vehicle and environmental structure which form no part of the claimed design".





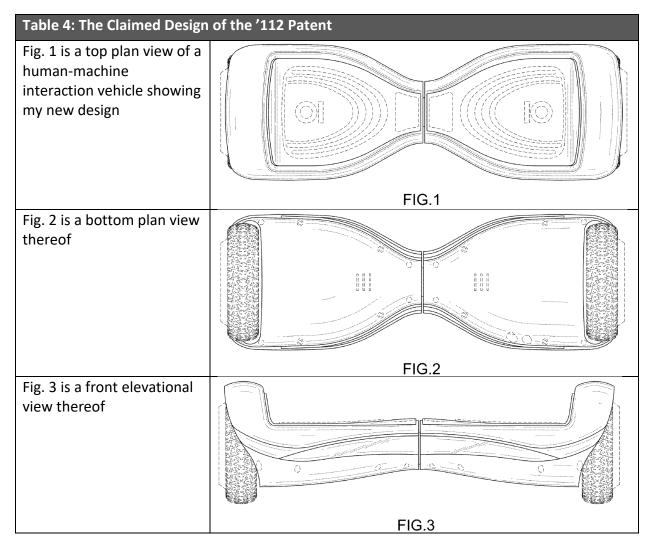
What is claimed is the overall ornamental design of a Human-Machine Interaction Vehicle as described in the patent and shown in the figures. The claimed design does not include the areas shown in broken lines, such as the wheels, and various patterns and lines on the top surfaces.

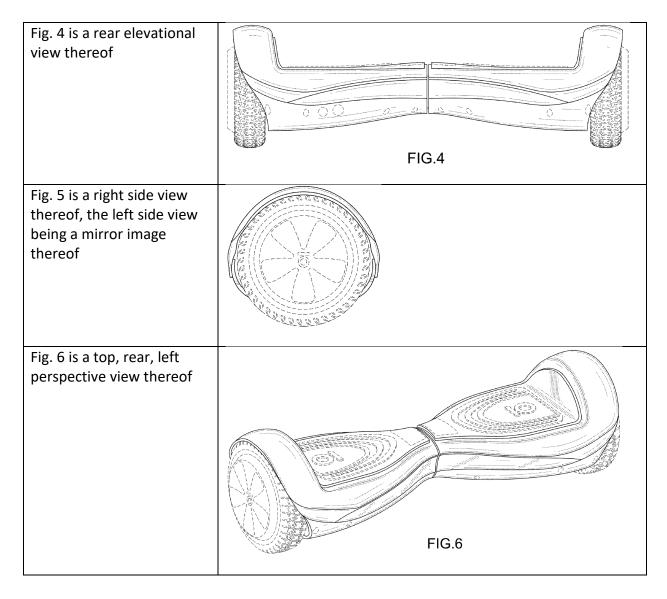
I have reviewed the prosecution history of the '195 Patent, and it consistent with my opinion of the claim scope. The claimed design was allowed over all the prior art that was cited in the file history.

E. Examination of the '112 Patent

The '112 Patent is also titled "Human-Machine Interaction Vehicle" and has a filing date of Feb 29, 2016. It claims priority to a foreign application CN 201530481979.4 dated 11/26/2015.

The patent has 6 figures, and states "the broken lines are for the purpose of illustrating portions of the human-machine interaction vehicle and environmental structure which form no part of the claimed design".





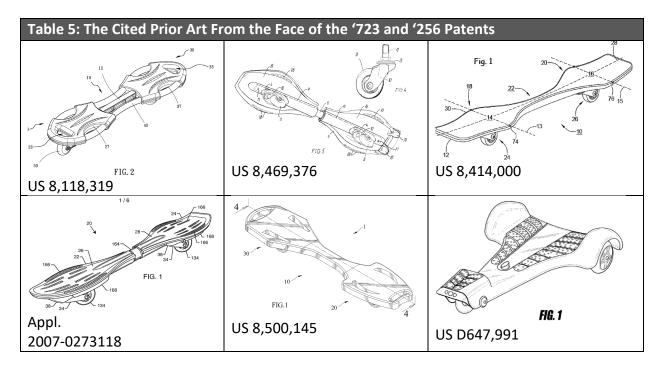
What is claimed is the overall ornamental design of a Human-Machine Interaction Vehicle as described in the patent and shown in the figures. The claimed design does not include the areas shown in broken lines, such as the wheels, circular holes on the bottom surface, and various patterns and lines on the top surfaces.

I have reviewed the prosecution history of the '112 Patent, and it consistent with my opinion of the claim scope. The claimed design was allowed over all the prior art that was cited in the file history.

F. The Cited Prior Art Show The Patents-In-Suit Have A Broad Scope

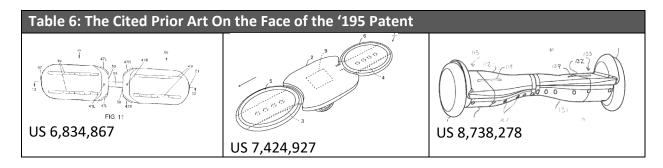
The prior art is used to compare to the claimed design of the patent to find the scope of the design in the ordinary observer test. It is also used to compare the accused product to the claimed designs to evaluate if the accused product is closer to the claimed design than the prior art.

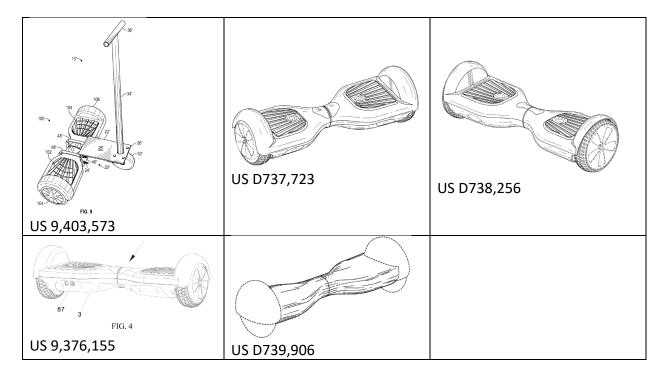
I have analyzed all the cited prior art of the Patents-In-Suit. Below I present one selected view from each of the cited prior art to provide an overview of the state-of-the-art at the time of the filing of each patent. As can be seen in the table below, each of the Patents-In-Suit differed highly from the prior art that preceded them.



While some of the individual components of the '723 and '256 Patents are represented in some of the prior art, the overall impression of the claimed design of the '723 and '256 Patents is entirely unique. The prior art is vastly different in many ways and therefore the '723 and '256 Patents enjoy a very broad scope.

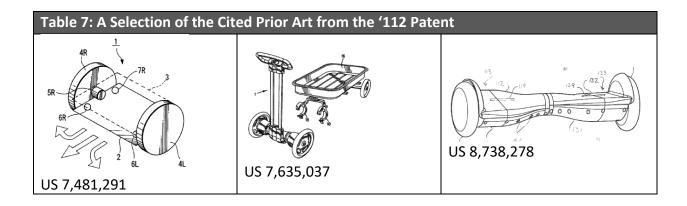
None of the prior art create the impression of an integrated 'hourglass' body with a relatively flat surface across the top of the main body and arched covers over the wheel area.

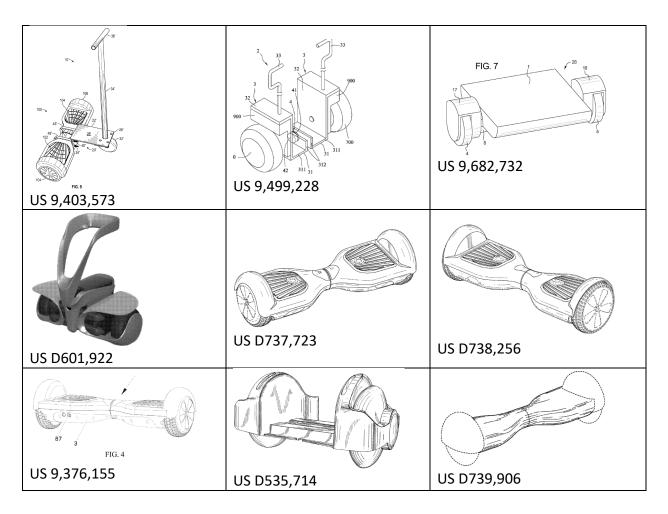




While some of the individual components of the '195 Patent are represented in some of the prior art, the overall impression of the claimed design of the '195 Patent is entirely unique.

None of the prior art create the impression of an integrated 'hourglass' body with many horizontal styling lines across the body and a relatively flat surface across the top, arched covers over the wheel area, larger radii on the front and back of the underside. Unlike any of the prior art the foot plates narrow as they extend toward the center.





While some of the individual components of the '112 Patent are represented in some of the prior art, the overall impression of the claimed design of the '112 Patent is entirely unique.

None of the prior art create the impression of an integrated 'hourglass' body with many angled lines across the body and a relatively flat surface across the top, arched covers over the wheel area, larger radii on the front and back of the underside. Unlike any of the prior art the foot plates stretch across almost the full width of main body.

IV. OVERVIEW OF THE ACCUSED PRODUCTS

The Accused Products have an integrated 'hourglass' body with many horizontal styling lines across the body and a relatively flat surface across the top, arched covers over the wheel area, larger radii on the front and back of the underside, and elongated light panels on the front surface. The foot plates narrow as they extend toward the center

Also, while they are not exact duplicates of each other but share very similar traits in their format, proportions and certain features, and share the same overall impression to an Ordinary Observer in light of the prior art.

	Table 8: Infri	nging Products by Defendants Gyroor
Name and Store names	Infringing Product Model	Infringing Product Photo (Representative)
"Gyroor A": Gyroor (Gyroor.com; gyroorboard.com); Gaodeshang-US; Gyroshoes; HGSM; Urbanmax; Jiangyou-US; Gyroor-US	Gyroor 6.5 inch hoverboards	
"Gyroor B": Gyroor (Gyroor.com; gyroorboard.com); Gaodeshang-US	Gyroor T580 series and variants	
"Gyroor C": Gyroor US; Jiangyou-US; (Gyroor.com; gyroorboard.com);	Gyroor T581 series and variants	
"Gyroor D": Fengchi-US; (Gyroor.com; gyroorboard.com);	G5 series and variants	
"Gyroor E" (Gyroor.com; gyroorboard.com);	G11 series and variants	

V. THE ACCUSED PRODUCTS INFRINGE THE PATENTS-IN-SUIT

I conducted a side-by-side comparison of the Accused Products and the Claimed Designs. My analysis was limited to the Claimed Designs as depicted by the solid lines in the figures of the Patents-In-Suit and did not include the unclaimed portions of the design depicted in broken lines.

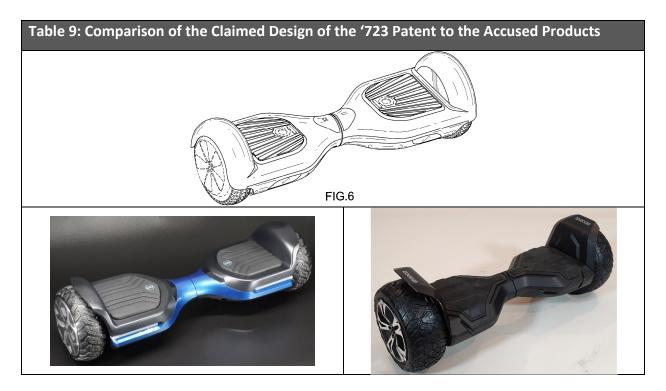
The Accused Products and the claimed designs of the Patents-In-Suit are both conceptually and functionally identical in that they are all Hoverboards, for recreational use by consumers.

As mentioned above, the scope of the claim of a patented design encompasses its visual appearance as a whole, and in particular the 'visual impression' it creates. Even if various ornamental elements which make up the whole of a design may be slightly different in isolation, infringement occurs if the overall visual impression is substantially similar.

In my analysis detailed below I conclude that the Accused Products are not plainly dissimilar to the Patented Designs and are substantially the same as the claimed designs of the Patents-In-Suit in the eyes of the ordinary observer. As an additional step, I also analyzed the patents' cited prior art against the Accused Products and Patented Designs to find whether the Accused Designs are closer to the Patented Designs than the cited prior art, as shown below.

A. The Accused Products Infringe on the '723 Patent

Although the below charts only present selected views, my analysis was undertaken on each of the accused products individually, based upon the entirety of the reference materials.





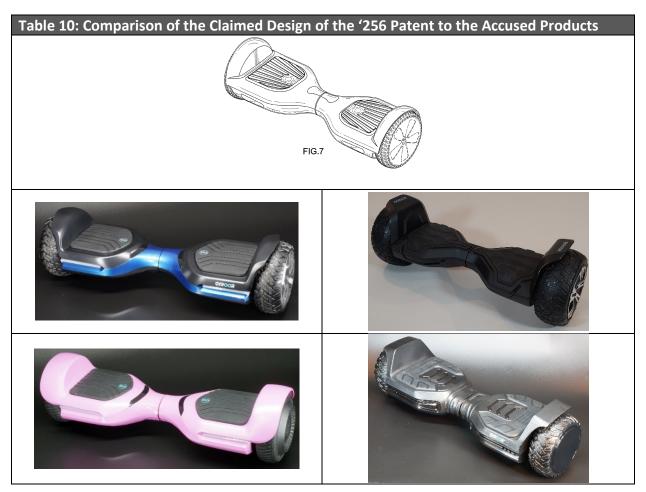
Giving due consideration to the legal standards as outlined in Section II, the examination illustrated in the table above allows for no other reasonable conclusion than that the overall visual impression of the Claimed Design of the '723 Patent and the Accused Products are not plainly dissimilar.

In the eyes of the ordinary observer, the claimed design of the '723 is substantially the same as the overall visual impression presented by the Accused Products. Unlike the cited prior art shown in Section III Chapter F, the claimed design of the '723 Patent and the Accused Products share the same overall impression and have an integrated 'hourglass' body with a relatively flat surface across the top of the main body, arched covers over the wheel area, larger radii on the front and back of the underside, and elongated light panels on the front surface.

In the eyes of the ordinary observer, the claimed design of the '723 is substantially the same as the visual impression presented by the Accused Products. Also, the Accused Products are closer to the claimed design of the '723 Patent than to the cited prior art of the '723 Patent.

B. The Accused Products Infringe on the '256 Patent

Although the below charts only present selected views, my analysis was undertaken on each of the accused products individually, based upon the entirety of the reference materials.





Giving due consideration to the legal standards as outlined in Section II, the examination illustrated in the table above allows for no other conclusion than that the overall visual impression of the Claimed Design of the '256 Patent and the Accused Products shown above are not plainly dissimilar.

Unlike the cited prior art shown in Section III Chapter F, the claimed design of the '256 Patent and the Accused Products share the same overall impression and have an integrated 'hourglass' body with a relatively flat surface across the top of the main body, arched covers over the wheel area, larger radii on the front and back of the underside, and elongated light panels on the front surface.

In the eyes of the ordinary observer, the claimed design of the '256 is substantially the same as the visual impression presented by the Accused Products. Also, the Accused Products are closer to the claimed design of the '256 Patent than to the cited prior art of the '256 Patent.

C. The Accused Products Infringe on the '195 Patent

Although the below charts only present selected views, my analysis was undertaken on each of the accused products individually, based upon the entirety of the reference materials.





Giving due consideration to the legal standards as outlined in Section II, the examination illustrated in the table above allows for no other conclusion than that the visual impression of the claimed design of the '195 Patent and the Accused Products shown above are not plainly dissimilar.

Unlike the cited prior art shown in Section III Chapter F, the claimed design of the '195 Patent and the Accused Products share an integrated 'hourglass' body with many horizontal styling lines across the body and a relatively flat surface across the top, arched covers over the wheel

area, larger radii on the front and back of the underside. Unlike any of the prior art the foot plates narrow as they extend toward the center.

In the eyes of the ordinary observer, the claimed design of the '195 is also substantially the same as the visual impression presented by the Accused Products. Also, the Accused Products are closer to the claimed design of the '195 Patent than to the cited prior art of the '195 Patent.

D. Two of The Accused Products Infringe on the '112 Patent

Although the below charts only present selected views, my analysis was undertaken on each of the accused products individually, based upon the entirety of the reference materials.



Giving due consideration to the legal standards as outlined in Section II, the examination illustrated in the table above allows for no other conclusion than that the visual impression of the claimed design of the '112 Patent and the Accused Products Gyroor B and Gyroor D shown above are not plainly dissimilar.

Unlike the cited prior art shown in Section III Chapter F, the claimed design of the '112 Patent and the Accused Products share an integrated 'hourglass' body with many lines angling across the body and a relatively flat surface across the top, arched covers over the wheel area, larger radii on the front and back of the underside. Unlike any of the prior art the foot plates stretch across almost the full width of main body.

In the eyes of the ordinary observer, the claimed design of the '112 is also substantially the same as the visual impression presented by the Accused Products Gyroor B, and Gyroor D, which are also closer to the claimed design of the '112 Patent than to the cited prior art of the '112 Patent.

VI. CONCLUSION

Based upon the application of the legal principles described in this Report, and upon my examination, analysis and comparisons of the Patents-In-Suit, their file histories, the prior art, and the Accused Products, it is my opinion that an ordinary observer would find the Accused Products to be substantially similar to the Claimed Designs.

- a. The Accused Products' overall design and visual impression is substantially the same as the Claimed Designs, with only minor and inconsequential differences observable upon even close inspection.
- b. The Accused Products appear substantially the same as the Claimed Designs of the Patents-In-Suit in the eye of an ordinary observer who is familiar with the prior art.
- c. The Accused Products are not plainly dissimilar to the claimed design of the '723 Patent and are substantially the same as the claimed design of the '723 Patent in the eyes of the ordinary observer.
- d. The Accused Products are not plainly dissimilar to the claimed design of the '256 Patent and are substantially the same as the claimed design of the '256 Patent in the eyes of the ordinary observer.
- e. The Accused Products are not plainly dissimilar to the claimed design of the '195 Patent and are also substantially the same as the claimed design of the '195 Patent in the eyes of the ordinary observer.
- f. The Accused Products Gyroor B and Gyroor D are not plainly dissimilar to the claimed design of the '112 Patent and are also substantially the same as the claimed design of the '112 Patent in the eyes of the ordinary observer.

VII. RESERVATION OF RIGHTS

My current opinions are set forth in this Report. However, my analysis is continuing, and I thus reserve the right to supplement or amend my Report and to rely on additional documents, prior art, or discovery or testimony that may come to my attention.

Moreover, I may make additions, deletions, or modifications to this Report and my opinions in the future that would be reflected in my testimony at the trial and/or additional reports and declarations that I may be asked to submit in this case. I also reserve the right to rely on all other expert reports submitted in this case. For the forthcoming trial, I may prepare diagrams, charts, other demonstratives, and/or demonstrations that illustrate the issues presented. I reserve the right to respond to additional arguments or analyses proffered by expert witnesses and/or the Defendant, and I understand that I may be asked to give rebuttal testimony on matters not covered in this expert Report.

Dated: August 15, 2022 Respectfully Submitted,

Paul Hatch

Appendix A

RESUME OF PAUL HATCH – August 2022

Professional Design Experience:

Oct 1998 – July 2020 CEO, TEAMS Design USA, Inc

May 2014 - 2018

Co-Founder, Design House LLC (Non-profit organization)

April 1993 - Oct 1998

Senior Designer, TEAMS Design GmbH, Germany.

Sept 1991- Sept 1992

Junior Industrial Designer, IDEA Design, Germany

July 1991 - Sept 1991

Junior Industrial Designer, Schroerdesign, Germany

June 1990 - Sept 1990

Junior Industrial Designer, DA Display Ltd, UK

Education:

Ph.D. in Learning Sciences at University of Illinois, Chicago (current).

BA (Hons) Degree 'Design For Industry' from University of Northumbria at Newcastle, Newcastle-upon-Tyne, UK.

Diploma in General Art & Design, Sutton Coldfield College of Further Education, Sutton Coldfield, West Midlands, UK.

Books Published

"REALIZE - Design Means Business" (Portuguese translation), 2009

"REALIZE - Design Means Business" (Chinese translation), 2008

"REALIZE - Design Means Business" (US original. Co-editor and contributor), 2006

"IMPACT, the Synergy of Technology, Business and Design" (Co-editor and contributor), 2005

Published Articles and Papers:

Innovation Magazine: "Immersive Design: What The Metaverse Means For Industrial Design", April 2022

Innovation Magazine: "Design Is Dead, Long Live Design", June 2018

LinkedIn Pulse: "Disruptive Innovation ... For Stability", May 2017

Innovation Magazine: "The State of Design - Maintaining a Proper Vision", Summer 2016

LinkedIn Pulse: "Getting Emotional - Design, UX and Magic" - Sept 2016

LinkedIn Pulse: "The Local Revolution -How Design is Reinventing Manufacture", Mar 2016

LinkedIn Pulse: "Design Thinking Is Only Half The Story", Jan 2016

LinkedIn Pulse: "The Macintosh Moment -Why IoT Needs ID, UX and Design Thinking" Feb 2016

LinkedIn Pulse: "User Experience - Fun For All The Family", Dec 2015

Innovation magazine: "To Design Is Human", Spring 2013

Innovation magazine: "Finding The Sweet Spot", Spring 2010

Insight magazine: "Profit, By Design", April 2005

Innovation magazine "Designer In The Middle", Spring 2004

Innovation magazine: "How To Avert The Asian Shift", Fall 2004

International Housewares Association Magazine: "Brand Differentiation Through Design Details", Feb 2003

Television, Book and Magazine Interviews

(Book) "Extended Reality: The Next Frontier of Design". Ralf O Schneider, April 2021

PRISM Podcast: "The Changing World of Design with Paul Hatch", April, 2021

Learning Sciences Research Institute - "Seeing A Way To Help", Sept 2020

DesignDrives Podcast - "Paul Hatch - Driving Innovation in Connected AI Products", March 2020

Apple podcast "Context" – "Interview with Paul Hatch", July 2019

Appliance Design Magazine: "The Internet of Things and The Pampered User", March 2019

Appliance Design Magazine: "Connected Product Design", July 2018

Appliance Design Magazine: "Paul Hatch Discusses the Intersection of Quality Data and a Better User

Experience, April 2018

Bosch Connected World: "Industrial Design in the Age of IOT", Feb 2018

Child Art /Learning From Design: "Paul Hatch", Fall 2016

Pittsburgh Technology Council (site): "It's All In The Jam!", Feb 2016

Chicago Tribune: "How A Group of Chicago Product Designers Aims to Boost Manufacturing", June 30 2014

IDSA site: "Paul Hatch on The Changing Mechanics of the Design Business", June 2014

(Book) "Breaking In" by Amina Horozic, May 2014

(Book) "Drawing For Product Designers" by Kevin Henry, Sept 2012

Taiwan "Designer" Magazine: "Teams Design To Success in Past 50 Years", Dec 2011

IDSA site: "What Paul Hatch Thinks About Contrast", Mar 2011

New York Daily News: "From 0 to 60 in the Kitchen", June 2009

(Television) "190 North", June 2006

Appliance Design Magazine: "IATC Review: Taking A World View", May 2006

Appliance Design Magazine: "Industrial Design and Human Factors", March 2004

(Television) "World Business Review with Alexander Haig", May 2003

Conference Presentations, Proceedings and Invited Lectures:

Invited Speaker: Design & Cognitive Psychology – SCAD, Georgia, Sept 2020

Invited Speaker: Design & Cognitive Psychology – UIC Chicago, Mar 2020

Keynote Speaker: UX and IOT - Newell Congress Chicago, July 2018

Invited Speaker: Connecting the Smart Home to the Homeowner – International Housewares Show, Jan

2018

Invited Panelist: Intellectual Property and Design Rights – 13th Annual Foley IP Conference, Sept 2017

Keynote Speaker: Naked Design and Visual Perception - North Carolina State University, Nov 2017

Keynote Speaker: Communicate or Die – UIUC, Dec 2016

Keynote Speaker: The World Class Designer - Newell Summit, Kalamazoo, Oct 2016

Invited Speaker: IOT and The Macintosh Moment -Connected World Conference, Sept 2016

Keynote Speaker: Talking Loud & Clear- CSULB San Francisco, Aug 2016

Invited Speaker: UX and IOT – Windy City Things, June 2016

Keynote Speaker: Design For Local – IDSA International Conference, Atlanta, Aug 2016

Keynote Speaker: Design Like an ID-IOT - Manifest, Chicago, May 2016

Keynote Speaker: UX and the ID-IOT – IDSA Western District Conference, Denver, March 2016

Invited Speaker: Brand Personalities - DMI National Conference, Boston, Sept 2015

Keynote Speaker: Design For Local – PD+I Conference, London, May 2015

Keynote Speaker: Paul Hatch and the Evolution Of Consumer Products - Garmin Center, March 2015

Invited Speaker: The Changing Mechanics of the Design Business, IDSA International Conference, Austin,

June 2014

Invited Speaker: Design as a Center Of Excellence – Bosch Global Summit May 2014

Keynote Speaker: Visual Perception and the Designer – Purdue University Oct 2013

Invited Participant: The Meaning Of Life - Ignite Talk, ORD Camp, Chicago May 2013

Keynote Speaker: Communicate Or Die – IDSA Midwest District Conference 2012

Keynote Speaker: Designing For International Markets – Stryker Summit, Kalamazoo, June 2012

Invited Speaker: Run Like A Designer – IDSA Southern District Conference, May 2011

Invited Speaker: Reinventing The Wheel - IDSA Midwest District Conference, April 2011

Keynote Speaker: Future Tech trends – IATC Engineering Conference, May 2010

Invited Panelist: The Top i-Gadgets - Consumer Electronics Show, Jan 2010

Invited Participant: Designer Mixtape-IDSA International Conference Aug 2009

Keynote Speaker: Creating A Creative Culture -ID-DNA- IDSA Midwest Conference, March 2009

Invited Speaker: Protecting Brand Equity – PDMA, 2008

Invited Panelist: Developing A Brand Identity To Grow Your Margins -Consumer Electronics Show, Jan

2006

Invited Speaker: Brand Differentiation Through Design Details - International Housewares Show, Jan 2003

Invited Speaker: Design in the USA – USA Forum, Frankfurt Germany, Feb 2000

Professional Honors and Other Achievements:

2022 Graduate Research Fellow, National Science Foundation

2018 Presented the IDSA Fellowship Award.

2016 was elected onto the board of the IDSA as Director-at-Large.

2015 Called to meeting at The White House by Barack Obama and Secretary of Commerce Penny Pritzger for Forum on supporting US manufacture.

2014 Founded Design House Inc, a nonprofit organization whose mission is to help revitalize local manufacture through design.

2013 Elected Chair of IDSA International Conference 'Breaking The Rules'

2009 Third design professional ever to be awarded the IDSA Midwest Honors for Outstanding Achievement.

2005-07 Elected to The Board of Directors, Industrial Designer Society of America.

2006 Elected Chair for IDSA Midwest Conference "Home, Urban Seduction & Design", Chicago, IL

2005 Elected Chair for IDSA Midwest Conference "Impact -Design Means Business" at University of Urbana-Champaign, IL.

2005 Founded and ran 'Fight Club', which NY Times called "A Designer Slugfest". It later became a pilot Reality TV show.

2004 Elected Chair for IDSA Midwest Conference "Shift Happens", Chicago, IL

2000 Received the "Design of The Decade Award" from Business Week and the IDSA for TEAMS Design's achievements.

Awards:

2020

IDEA Jury Chair Award

IDEA Medical Device Gold Award

2011

Appliance Design EID Silver Award : Business Machine – HoMedics Inc. Black & Decker Hanging Crosscut 6-Sheet Paper Shredder

Appliance Design EID Silver Award: Small Appliances – Robert Bosch Corp., 12" Dual-Bevel Glide Miter Saw

Appliance Design EID Silver Award: Small Appliances – HoMedics Inc., Black & Decker iShred

Appliance Design EID Bronze Award: Small Appliances – Jarden Consumer Solutions, Mr. Coffee Optimal Brew Thermal Coffeemaker

2010

iF Product Design Award: Mr. Coffee Optimal Brew Thermal Coffeemaker

ID Magazine Annual Design Review: Robert Bosch Full Force Pneumatic Nail Guns

Appliance Design EID Award: Federal Signal Automated Parking Products

Appliance Design EID Award: Robert Bosch Full Force Pneumatic Nail Guns

Appliance Design EID Silver Award: Federal Signal Automated Parking Products Universal One & Universal PS

Appliance Design EID Silver Award: Robert Bosch Full Force Pneumatic Nail Guns

Appliance Design EID Bronze Award: Sunbeam Products Flat Panel Heater

Appliance Design EID Award: Sunbeam Products Flat Panel Heater

2009

Appliance Design EID Silver Award: Robert Bosch RS35 Reciprocating Saw

Appliance Design EID Silver Award: Argus Camera Company Kid's Cameras Bean

and Sprout

IHA Award: Wusthof-Trident Precision Edge Electric Knife Sharpener

IHA Award: Smith's Edge Diamond Edge Electric Knife and Scissors Sharpener

Good Design Award: Robert Bosch Pneumatic Nailers Good Design Award: RS35 Demolition Reciprocating Saw

Good Design Award: Precise Path Robotics RG3 Robotic Greens Mower

IDEA Award: Argus Bean Children's Digital Camera

2008

ADEX Award: Mansfield Reo Bathroom Suite

ADEX Award: Mansfield Essence Bathroom Suite

Good Design Award: Argus Camera Kid's Cameras Bean and Sprout

Spark Award Bronze: Precise Path RG3 Mower

2005

Good Design Award: LR Nelson Costco 3 Piece Nozzle Set

2001

iF Product Design Award: Karcher HDS 698 CSX Heated Pressure Washer

2000

Design of the Decade (IDSA /BusinessWeek): Karcher Full Line of Power Washers

I.D. Magazine Design Awards: Siemens Easy Control Climate Control Unit

iF Product Design Award: Siemens Easy Control Climate Control Unit

LIST OF PATENTS (Design patents, utility patents and patents pending).

2021/0076929	2021	Vision Measurement Device and Method of Measuring Vision Using The Same
2020/0069089	2020	Food Product Dispenser and Valve
WO 063584	2019	Vision Measurement Device and Method of Measuring Vision Using the Same
EP3687373	2018	Vision Measurement Device and Method of Measuring Vision Using the Same.
10,470,597	2019	Food Product Dispenser and Valve
10,194,763	2019	Food Product Dispenser and Valve
2019/0006,862		Power pack vending apparatus, system and method of use for charging packs with locking arrangement
10,084,329	2018 packs v	Power pack vending apparatus, system, and method of use for charging power with biased locking arrangement
D800803	2017	Table Saw

D794407	2017	Power tool
9,717,354	2017	Food product dispenser and valve
2017/0251846	2017	Food Product Dispenser and Valve
D761337	2016	Saw
DE10 209490	2016	Werkzeugaufbewahrungsvorrichtung (Tool Storage Device)
9,132,559	2015	Cutlery having improved gripping ergonomics
2014/0214,518	2014	System and method for price matching and comparison
D689252	2013	Portion of floor cleaning machine
D686791	2013	Vacuum cleaner handle
D674371	2013	Portable audio device
2012/0159793	2012	Slidable chopping attachment for kitchen knives
D646935	2011	Cutlery block
D645715	2011	Pull saw
D639616	2011	Cutlery handle
D639615	2011	Cutlery handle
D639614	2011	Cutlery handle
JP005278	2011	IV Pole
7,703,750	2010	Storage apparatus
WO 019238	2010	Rotary food cutter with removable blade assembly
2010/0037,787	2010	Rotary food cutter with removable blade assembly
7,708,167	2010	Dispensing Apparatus
D607024	2009	Hinge boring bit
D594292	2009	Pizza cutter
D593817	2009	Box grater
D591118	2009	Bottle opener
D584111	2009	Colander
D583207	2008	Can opener
2008/0093,489	2008	Spice Grinder Assembly with Grind Adjusting Wheel
7,325,785	2008	Storage apparatus
D565164	2008	Volatile Dispenser
D559640	2008	Palm Grip Sander
D555435	2007	Spice grinder

D550027	2007	Pan handle
D555902	2007	Case for tool accessories
D553857	2007	Case for tool accessories
2007/0023455	2007	Dispensing Apparatus
D553233	2007	Volatile Dispenser
2007/0197152	2007	Powered paint removal tool
7,270,496	2007	Ring Mechanism for a ring binder
D533041	2006	Drilling and driving tool
D523634	2006	Insert bit dispenser
D518893	2006	IV Pole
D525096	2006	Tuck pointer
6,983,930	2006	Clamping device with flexible arm
WO 027702	2005	Dispensing apparatus
CA 2469977	2005	Ring mechanism for a ring binder
2005/0265775	2005	Ring mechanism for a ring binder
6,969,031	2005	Adjustable moveable IV stand
2004/0151,531	2004	Sound deadening mechanism for a ring binder
EP 1,706,010	2004	IV Pole
6,754,935	2004	Power tool handle
EP 1,509,366	2003	Power Tool Handle
2003/0221292	2003	Power tool handle
D470871	2003	Mobile oil dispenser
CA 2488612	2003	Power tool handle
D475595	2003	Circular saw with top handle
D475265	2003	Circular saw with rear handle
D441342	2001	Power station with corded backup

Appendix B

PRIOR TESTIMONY

The following is a list of all cases I have served as an expert witness and testified either at trial or by deposition in the last 4 years:

Year	Case	Туре
2022	Cambria Company LLC v. Lakeside Surfaces Inc	Design Patent Infringement
2020	Shure Inc., and Shure Acquisition Holdings, Inc., v. ClearOne, Inc	Design Patent Infringement
2020	Skull Shaver, LLC v. Ideavillage Products Corporation	Design Patent Infringement
2020	Cixi City Liyuan Auto Parts Co. Ltd., Tyger Auto, Inc., And Hong Kong Car Start Industrial Co. Ltd v. Laurmark Enterprises, Inc	(ITC) Utility Patent Infringement
2019	Simpson Strong-Tie Company v. Oz-Post International	Design Patent Infringement, Utility Patent Infringement
2019	Black & Decker Corporation v. Harbor Freight Tools	JAMS Arbitration, Design Patent Infringement, Utility Patent Infringement, Trade Dress Infringement
2019	Focus Products Grp, Int'l & Zahner Design & Hookless Systems & Sure Fit Home v. Kartri Sales, Co. & Marqui Mills Int'l	Trade Dress and Trademark Infringement, Design Patent Infringement, Utility Patent Infringement

Appendix C

Materials Considered

The following is a list of materials I considered in preparing this Report:

U.S. Patent D737,723 and its filing history
U.S. Patent D738,256 and its filing history
U.S. Patent D784,195 and its filing history
U.S. Patent D785,112 and its filing history
Prior Art cited on the face of each of the above patents.
The Accused Products "Gyroor A", "Gyroor B", "Gyroor C", "Gyroor D", and "Gyroor E",